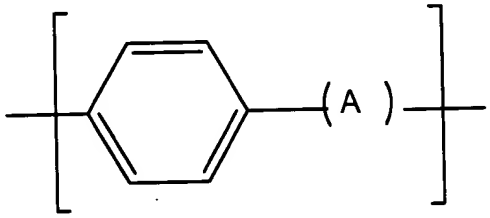
Amendments to the claims:

This listing of claims will replace all prior versions and listing, of claims in the application:

Listing of Claims:

Claim 1 (currently amended) A battery polymeric material composed of a single type of repeating unit ~~comprising repeating units~~, wherein ~~p-phenylene is combined with one type of group~~ said repeating unit has the formula



where A is selected from the group consisting ~~composed~~ of oxygen, a methylene group, an isopropylidene group, a carbonyl group, a carbonyldioxy group, a carboxylic acid anhydride group, ~~an amide group,~~ an ureylene group, and a sulfonyl group.

Claim 2 (Currently amended) A battery polymeric material according to claim 1, wherein ~~a group combined with p-phenylene~~ A is oxygen or a carbonyl group.

Claim 3 (canceled).

Claim 4 (canceled).

Claim 5 (withdrawn): A battery separator formed by the battery polymeric material according to the claim 1.

Claim 6 (withdrawn): A battery separator formed by the battery polymeric material according to the claim 3.

Claim 7 (withdrawn): A battery insulating packing formed by the battery polymeric material according to the claim 1.

Claim 8 (withdrawn): A battery insulating packing formed by the battery polymeric material according to the claim 3.

Claim 9 (withdrawn): A lithium battery, wherein

a positive electrode, a negative electrode, a non-aqueous electrolyte, and a battery separator separating said positive electrode and negative electrode are provided in a battery case, and said battery separator is formed by the battery polymeric material according to the claim 1.

Claim 10 (withdrawn): A lithium battery, wherein

a positive electrode, a negative electrode, a non-aqueous electrolyte, and a battery separator separating said positive electrode and negative electrode are provided in a battery case, and said battery separator is formed by the battery polymeric material according to the claim 3.

Claim 11 (withdrawn): A lithium battery, wherein

a positive electrode, a negative electrode, a non-aqueous electrode, and a battery separator separating said positive electrode and negative electrode are provided in a battery case, and a battery insulating packing sealing said battery case is formed by the battery polymeric material according to the claim 1.

Claim 12 (withdrawn): A lithium battery, wherein

a positive electrode, a negative electrode, a non-aqueous electrolyte, and a battery separator separating said positive electrode and the negative electrode are provided in a battery case, and a battery insulating packing sealing said battery case is formed by the battery polymeric material according to the claim 3.

Claim 13 (withdrawn): A lithium battery, wherein

a positive electrode, a negative electrode, a non-aqueous electrolyte, and a battery separator separating said positive electrode and the negative electrode are provided in a battery case, and said battery separator is formed by the battery polymeric material according to the claim

1 and is automatically soft-soldering in a reflowing furnace.

Claim 14 (withdrawn): A lithium battery, wherein

a positive electrode, a negative electrode, a non-aqueous electrolyte, and a battery separator separating said positive electrode and the negative electrode are provided in a battery case, and said battery separator is formed by the battery polymeric material according to the claim 3 and is automatically soft-soldering in a reflowing furnace.

Claim 15 (withdrawn): A lithium battery, wherein

a positive electrode, a negative electrode, a non-aqueous electrolyte, and a battery separator separating said positive electrode and negative electrode are provided in a battery case, and a battery insulating packing sealing said battery case is formed by the battery polymeric material according to the claim 1 and is automatically soft-soldering in a reflowing furnace.

Claim 16 (withdrawn): A lithium battery, wherein

a positive electrode, a negative electrode, a non-aqueous electrolyte, and a battery separator separating said positive electrode and negative electrode are provided in a battery case, and a battery insulating packing sealing the battery case is formed by the battery polymeric material according to the claim 3 and is automatically soft-soldering in a reflowing furnace.